



Department of
Agriculture

BIENNIAL REPORT

19
20

table of **CONTENTS**

COMMISSIONER'S MESSAGE	3
FY 2019 AGRICULTURE HIGHLIGHTS	4
2020 PANDEMIC RESPONSE	5
FY 2020 AGRICULTURE STATISTICS	
ADMINISTRATION, GRANTS, AND COMMODITIES	6
BUSINESS DEVELOPMENT	8
CONSUMER AND INDUSTRY SERVICES	10
FORESTRY	12
ANIMAL HEALTH AND LAB DIAGNOSTICS	14
USDA NASS STATISTICS	16

When thinking back on the last two years, it's difficult to summarize it all in a few short paragraphs. From 2019 to 2020, our world experienced immense change. The COVID-19 pandemic has touched every single one of us and continues to affect nearly every corner of the globe. In this biennial report, you will gain an understanding of how the Tennessee Department of Agriculture stepped up, pitched in, and held strong to our commitment to serve the citizens of Tennessee.

This new environment reinforces the fact that agriculture is vital for the most important aspects of our daily lives. Farmers, foresters, manufacturers, distributors, and retailers ensure community access to safe and abundant food, fuel, fiber, and wood products. The Department's priority remains protecting the safety and health of our staff and our customers while delivering the services you trust and expect. In the following pages you will see how agriculture in our state has continued to progress, positively impacting Tennessee's economy by billions of dollars even in the face of uncertainty.

Advancement of our rural areas is a primary focus. Investments in grant programs and projects to enhance farm incomes create positive outcomes in all of our communities. Even with budget cutbacks, we were able to keep those programs in place. And with federal assistance, we are proud to have offered the nation's most comprehensive pandemic recovery initiative to reinforce the agriculture industry. The Coronavirus Agricultural and Forestry Business Fund helped stabilize the food supply and agribusinesses, with \$55 million approved for financial relief to the individuals and organizations that needed it most.

There is no denying that our lives have been altered by this unpredictable and devastating virus. Yet no matter the challenges they face, farmers and foresters remain resilient. There is comfort in knowing that the agriculture community stands together in the face of the storm.

Thank you for your interest in and support of agriculture,

A stylized, handwritten signature in white ink, likely belonging to Charlie Hatcher, set against a dark red background.

Charlie Hatcher, D.V.M.
Tennessee Commissioner of Agriculture

2019 AGRICULTURE HIGHLIGHTS



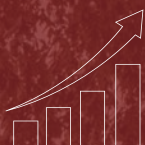
Invested \$28.7 million in agriculture grants for 8,203 projects



Paid \$17.7 million in 5,387 TAEP (Tennessee Agricultural Enhancement Program) projects



Awarded more than \$957K in Agricultural Enterprise Fund (AEF) grants to 27 recipients, creating 158 new jobs



The Agricultural Museum welcomed 12,000 visitors and hosted 4,100 students.



More than \$5 million provided in incentive funding for 2,313 erosion control and water quality projects



2,563 businesses registered with Pick Tennessee Products and \$1.4 billion in agriculture and forest products exported



Schools received 25 million pounds of food and the Emergency Food Assistance Program distributed an additional 34 million pounds.



16,117 forest acres improved through woodland owner activity, and 3.5 million tree seedlings sold



99,172 fuel pumps inspected, 7,700 fuel samples tested, 14,550 food inspections conducted, 784 livestock welfare complaints addressed, and 1,160 Kord Lab necropsies performed

TOP COMMODITIES



SOYBEANS
\$655M



CATTLE/CALVES
\$548M



BROILER CHICKENS
\$525M



CORN
\$385M

Coronavirus Agricultural and Forestry Business (CAFB) Fund

The Tennessee Department of Agriculture established the Coronavirus Agricultural and Forestry Business (CAFB) Fund to help ensure stability of the food supply chain and agribusiness economy during the COVID-19 pandemic. The fund provided financial assistance to agricultural, food, forestry, and nonprofit agricultural entities in Tennessee. Tennessee's investment of federal assistance is the largest in the nation across the spectrum of agriculture, including forest and other related businesses.

\$55 MILLION
TOTAL FUNDING APPROVED



BREWERIES



FORESTRY SAWMILLS
\$5,746,404

FOOD PROCESSORS
\$4,520,268



MEAT PROCESSORS
\$11,166,752

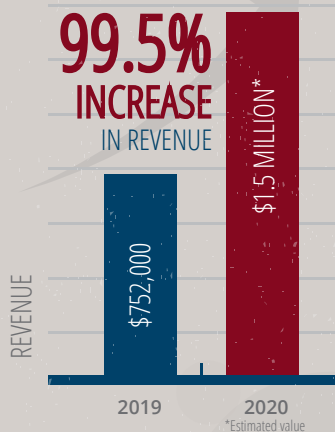
FORESTRY LOGGERS
\$5,300,947

EVENTS

TOP CATEGORIES AWARDED

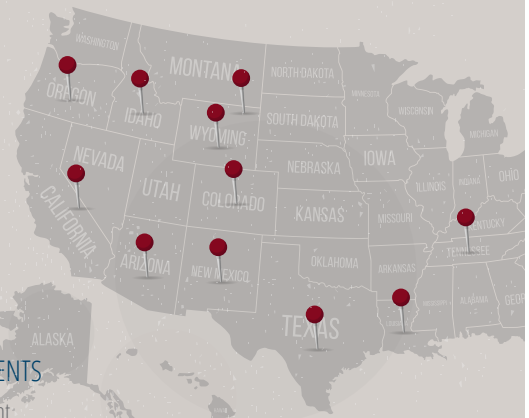
Out-of-State Deployments

One of the highest priorities within the Department's Division of Forestry is to strengthen emergency response capabilities by increased implementation of the National Incident Management System and greater development of the Division's incident management teams. Accelerated participation in out-of-state emergency fire deployments during the last two years has provided an intensive, hands-on approach in meeting this priority.



400% INCREASE
IN EQUIPMENT DEPLOYMENTS

In 2019, we utilized 5 equipment resources. In 2020, we utilized 25 resources, including bulldozers and fire engines.



552% INCREASE IN PERSONNEL DEPLOYMENTS

In 2019, 25 personnel were deployed to 3 states. In 2020, 163 personnel were deployed to 11 states.

Laboratory Testing

The C. E. Kord Animal Health Diagnostic Laboratory provides testing to support healthy animals in Tennessee. Monitoring animals in close contact with people aids in detection of emerging diseases, supporting the vital worldwide collaboration among public and animal health officials known as the One Health initiative.



Chronic Wasting Disease

In 2020, for the first time CWD testing capabilities were added and conducted in-state by TDA. Chronic wasting disease (CWD) is a disease that affects deer, elk, reindeer, sika deer and moose. In 2020, Kord Lab performed 3,200 CWD tests. Of those tests, 107 were positive.

ZERO
IN-STATE
TESTS

3,200
TESTS IN 2020



Seneca Valley Virus & Foot-and-Mouth Disease



Foot-and-mouth disease (FMD) is a severe and highly contagious viral disease in cows, pigs, sheep, goats, deer, and other animals with divided hooves currently not found in the U.S. Seneca Valley Virus (SVV) is a less severe disease that circulates among the pig population but mimics FMD. In 2020, TDA received a \$250K federal grant to develop a first-of-its-kind rapid test for FMD in partnership with Vanderbilt University that has the potential to transform early disease detection on a national scale.

ADMINISTRATION, GRANTS, AND COMMODITIES

BASED ON FISCAL YEAR 2020

8,704

TOTAL AGRICULTURAL
GRANTS



\$33.9M

TOTAL AGRICULTURAL
GRANT FUNDING



\$73.8M

FOOD DISTRIBUTION
FUNDING



143

FOOD DISTRIBUTION
LOCATIONS



This information was developed by the Tennessee Department of Agriculture to share information about some of our largest grant programs. This data shows the aggregate number of projects and funding. The data provided is from FY 2019/2020 (July 1, 2019 to June 30, 2020).

TENNESSEE AGRICULTURAL ENHANCEMENT PROGRAM

\$21.3M

TOTAL PAID



\$129.9M

ECONOMIC IMPACT



5,807

PROJECTS

FORESTRY GRANTS



224,708

WILDFIRE MANAGEMENT
& PREVENTION GRANTS



63,570

URBAN FORESTRY
GRANTS



193,958

RURAL FORESTRY
GRANTS

LAND AND WATER STEWARDSHIP

\$6,172,873

TOTAL
INVESTMENTS



2,353

CONSERVATION
PRACTICES



95

COUNTIES

BUSINESS DEVELOPMENT

BASED ON FISCAL YEAR 2020



2,700+

PICK TENNESSEE
PRODUCTS BUSINESSES



5,807

TENNESSEE AGRICULTURAL
ENHANCEMENT PROGRAM PROJECTS



\$56.7 M

AGRICULTURAL ENTERPRISE FUND
ECONOMIC IMPACT

This information was developed by the Tennessee Department of Agriculture to share information about programs within the Business Development Division. The data provided is from FY 2019/2020 (July 1, 2019 to June 30, 2020). The AEF economic impact data is cumulative from the year of program origination, beginning in August of 2017.

TENNESSEE AGRICULTURAL ENHANCEMENT PROGRAM (TAEP)



\$5,853,050

ROW CROP SOLUTIONS



\$5,742,370

HAY



\$4,134,982

LIVESTOCK EQUIPMENT



\$1,836,411

LIVESTOCK SOLUTIONS



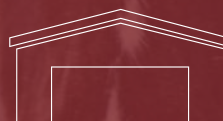
\$1,088,189

PRODUCER DIVERSIFICATION



\$1,046,270

LIVESTOCK GENETICS



\$920,100

WORKING FACILITY
STRUCTURES



\$372,940

POULTRY GROWER



\$340,570

HERD HEALTH

AGRICULTURAL ENTERPRISE FUND (AEF)



45

AWARD RECIPIENTS

\$2M

TOTAL INVESTMENTS



307

NEW JOBS



CONSUMER AND INDUSTRY SERVICES

BASED ON FISCAL YEAR 2020



14,952

LICENSED INDIVIDUALS
(As of June 30, 2020)



38,880

LICENSED FACILITIES
(As of June 30, 2020)



45,683

TOTAL INSPECTIONS
(FY 2020)

The licensing and inspections data was developed by the Tennessee Department of Agriculture to share information about the functions performed by the Consumer and Industry Services Division. It includes regulatory inspections performed and licenses issued as required by law and rule. The data contains licenses and inspections within the State of Tennessee. The term “license” represents permits, certifications, charters, and professional licenses. The data provided is based on the last day of FY 2020 (June 30, 2020). Inspections are based on FY 2019/2020 (July 1, 2019 to June 30, 2020).

THE BREAKDOWN (As of June 30, 2020)



380
AG INPUT
LICENSES



7,893
BEEKEEPER
LICENSES



564
DAIRY RELATED
LICENSES



10,481
FOOD RELATED
LICENSES



13,843
PESTICIDE RELATED
LICENSES



7,955
PLANT RELATED
LICENSES

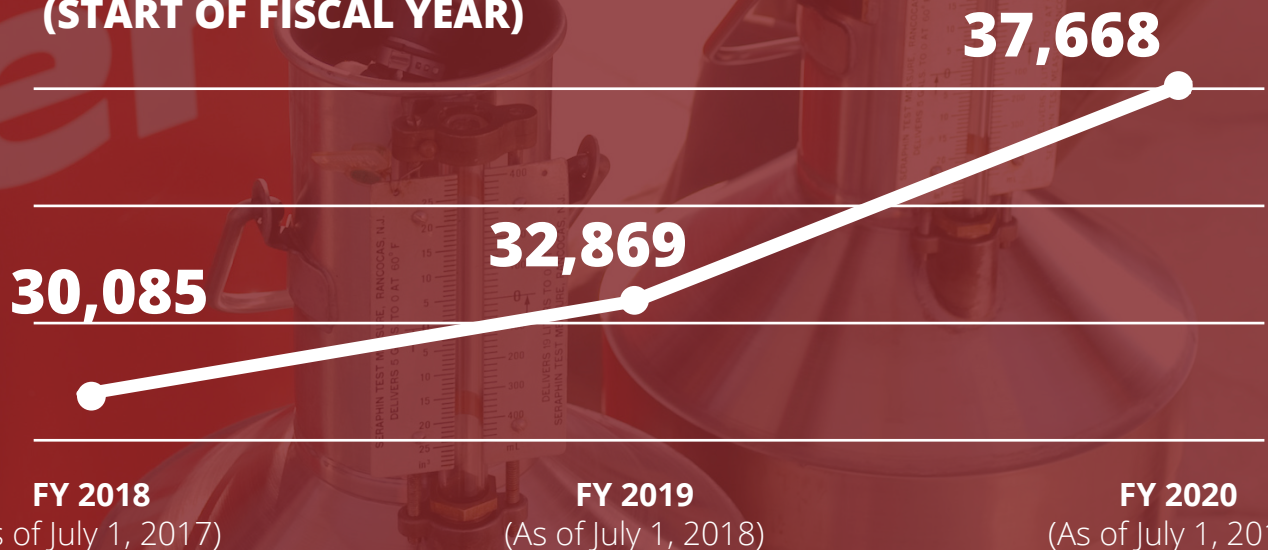


4,749
TOBACCO ENFORCEMENT
INSPECTIONS



12,716
FUEL RELATED AND
WEIGHTS & MEASURES
LICENSES

FACILITY LICENSE TRENDS (START OF FISCAL YEAR)





FORESTRY

BASED ON FISCAL YEAR 2020



734

FOREST MANAGEMENT
PLANS IMPACTING

67,255 ACRES



2,389,928

TREE SEEDLINGS SOLD



21

FORESTRY AGRICULTURAL
ENTERPRISE FUND AWARD
RECIPIENTS TOTALING

\$1,033,104

This information was developed by the Tennessee Department of Agriculture's Division of Forestry to share information about various functions and operations. All data is from FY 2019/2020 (July 1, 2019 to June 30, 2020).

WILDFIRE STATISTICS



64

PERSONNEL DEPLOYED
TO FIGHT WILDFIRES
OUT-OF-STATE



34

PERSONNEL DEPLOYED
IN-STATE TO ASSIST
WITH EMERGENCY
RESPONSE



448,223

BURN PERMITS
ISSUED FOR
34,546 ACRES



443

WILDFIRES SUPPRESSED
THAT BURNED
3,668 ACRES

OTHER FORESTRY STATISTICS



436

VOLUNTEER FIRE
DEPARTMENTS

27

FIREWISE
COMMUNITIES



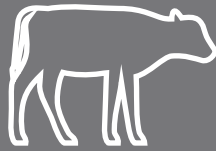
264

SAWMILLS
STATEWIDE



ANIMAL HEALTH AND LAB DIAGNOSTICS

BASED ON FISCAL YEAR 2020



190,638

LIVESTOCK PRODUCER
TESTS



\$5.8M

ESTIMATED MARKET VALUE
OF LIVESTOCK TESTS



1,097

NECROPSY
EXAMINATIONS

This information was developed by the Tennessee Department of Agriculture's Animal Health Division to share information about the functions performed by the Division and the C.E. Kord Animal Health Diagnostic Laboratory. It includes the laboratory testing data, licensure data, Tennessee animal exports and imports, and other Animal Health program functions overseen by the Division. The data provided is from FY 2019/2020 (July 1, 2019 to June 30, 2020).



51

LICENSED
LIVESTOCK
MARKETS



\$110,465

ANIMAL
FRIENDLY
GRANTS



83

LICENSED
LIVESTOCK
DEALERS

OTHER ANIMAL DATA



53.8 MILLION

TOTAL ANIMALS EXPORTED



48.2 MILLION

TOTAL ANIMALS IMPORTED

MOVEMENT OF LIVE ANIMALS

10,800,000 ACRES 70,000 FARMS

by commodity **PRODUCTION**

			NATIONAL RANK	
	2019	2020	2019	2020
Corn	161,070,000 bu.	140,250,000 bu.	16	15
Wheat	14,405,000 bu.	13,570,000 bu.	17	18
Soybeans	64,390,000 bu.	81,000,000 bu.	16	16
Hay, Alfalfa	48,000 tons	74,000 tons	31	31
Hay, Other	4,025,000 tons	4,066,000 tons	4	5
Cotton	960,000 bales	610,000 bales	8	8
Tobacco, Burley	6,400,000 lbs.	4,340,000 lbs.	3	3
Tobacco, Dark Air	6,450,000 lbs.	8,510,000 lbs.	2	2
Tobacco, Dark Fire	17,640,000 lbs.	16,530,000 lbs.	2	2
Cattle, All	1,810,000 head	1,790,000 head	16	16
Cattle, Beef	909,000 head	900,000 head	11	12
Cattle, Milk	31,000 head	30,000 head	31	31
Hogs & Pigs	250,000 head	260,000 head	20	20
Sheep, All	49,000 head	53,000 head	30	27
Goats, Meat & Other	100,000 head	96,000 head	2	2
Goats, Milk	7,000 head	7,000 head	18	20
Broiler Chickens				
Number of Farms	70,000	70,000	9	9
Land in Farms	10,800,000 ac.	10,800,000 ac.	25	25
Average Farm Size	155 ac.	155 ac.	42	42

Source: USDA's National Agricultural Statistics Service

by commodity

CROP PRODUCTION

2020	Harvested	Yield Per Acre	Production	Value (1)
Corn (2)	825,000 ac.	170.0 bu.	140,250,000 bu.	\$617,100,000
Soybeans (2)	1,620,000 ac.	50.0 bu.	81,000,000 bu.	\$923,400,000
Wheat, Winter (2)(3)	230,000 ac.	59.0 bu.	13,570,000 bu.	\$73,957,000
Cotton (4)	275,000 ac.	1,065 lbs.	610,000 lbs.	\$192,370,000
Hay, All	1,749,000 ac.	2.37 tons	4,140,000 tons	\$483,574,000
Hay, Alfalfa	19,000 ac.	3.90 tons	74,000 tons	\$15,984,000
Hay, All Other	1,730,000 ac.	2.35 tons	4,066,000 tons	\$467,590,000
Tobacco, All	12,300 ac.	2,389 lbs.	29,380,000 lbs.	\$76,536,000
Tobacco, Burley	2,800 ac.	1,550 lbs.	4,340,000 lbs.	\$8,637,000
Tobacco, Dark Fire-Cured	5,800 ac.	2,850 lbs.	16,530,000 lbs.	\$46,284,000
Tobacco, Dark Air-Cured	3,700 ac.	2,300 lbs.	8,510,000 lbs.	\$21,615,000

(1) Preliminary

(2) Area harvested represents grain.

(3) Includes area planted in preceding fall. (4) Production in 480-lb. net weight bales.

Source: USDA's National Agricultural Statistics Service

\$3,419,909,000

by commodity

CASH RECEIPTS

2019

All Commodities (1)	\$3,419,909,000
Livestock and Products (1)	\$1,278,350,000
Meat Animals	\$576,457,000
Cattle & Calves	\$487,665,000
Hogs	\$88,792,000
Dairy Products, Milk	\$105,924,000
Poultry & Eggs	\$ 535,602,000
Broiler Chickens	\$457,715,000
Miscellaneous (2)	\$60,367,000
Crops (1)(3)	\$2,141,559,000
Wheat	\$79,790,000
Feed Crops	\$612,308,000
Corn	\$459,298,000
Cotton	\$274,028,000
Tobacco	\$85,167,000
Soybeans	\$624,041,000
Vegetables & Melons	*NA
Mushrooms	\$71,198,000
All Other Crops (4)	\$394,739,000

(1) May not add due to rounding.

(2) Includes trout, honey, mohair, wool, horses, stud fees, mules, sheep and lambs, goats, rabbits, bison and all other livestock.

(3) Forest products not included in farm cash receipts, but are included in net farm income.

(4) Includes greenhouse/nursery, sorghum grain, popcorn, other seeds, and other field crops.

*NA-Not Available.

2020 Cash Receipts were not available for the printing of this publication.

Source: USDA's National Agricultural Statistics Service - Economic Research Service



summary per head **LIVESTOCK**

	2019	2020
All Cattle and Calves	1,830,000	1,800,000
Cows and Heifers That Have Calved	950,000	950,000
Beef Cows	910,000	914,000
Milk Cows	40,000	36,000
Calves Under 500 Pounds	430,000	410,000
Steers 500 Pounds and Over	150,000	130,000
Heifers 500 Pounds and Over		
Beef Cow Replacements	135,000	145,000
Milk Cow Replacements	25,000	25,000
Other Heifers	80,000	75,000
Bulls 500 Pounds and Over	60,000	65,000
Calf Crop	860,000	860,000
Total Hogs	250,000	260,000
All Meat & Other Goats	89,000	100,000
All Milk Goats	7,000	7,400
All Sheep & Lambs (1)	48,000	49,000
Lamb Crop (2)	34,000	37,000
All Layers	1,409,000	1,618,000
Total Pullets	1,047,000	1,432,000
Other Chickens	145,000	137,000
All Chickens	2,601,000	3,187,000

(1) All sheep includes new crop lambs. New crop lambs are lambs born after September 30, the previous year.

(2) Total for the year. Lamb crop defined as lambs marked, docked or branded.

Source: USDA's National Agricultural Statistics Service



Tennessee Department of Agriculture
Ellington Agricultural Center
440 Hogan Road | Nashville, TN 37220

(615) 837-5103
tn.gov/agriculture



See what's happening in agriculture and forestry where you live. The Tennessee Department of Agriculture offers free, interactive data online. Live dashboards show the most requested data and key metrics from a statewide overview down to the county level.



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